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Office Memorandum . United states government

TO :	Chief, TSS/DDP	DATE:5 December 1956	25X ²
FROM:	R&D/APD Chief, Administration and Training Staff/OS		
SUBJECT:	R&D Technical Equipment, request for	4.	
	•		25X1
	1. For some time this office has had und replacement of the BELL Tape Recorders currentl in operational support activities	y used by	25X ⁻
	shown a need for recorders embodying features part to this type of activity which are lacking	peculiar and neces-	
	2. Recent testing of an AMPEX recorder, maccordance with certain recommendations of the shown this unit to be well suited, as modified, tended. In addition to modifications in the reas indicated below, the unit was removed from the state of the state o	this office, have for the usage in- ecording unit proper, the standard carry-	,
	ing case in which it comes from the manufacture	er	25X ²
	3. A prototype model has been turned over for study, necessary testing and evaluation.	er to	25X ²
	4. On the basis of examination and testi by OS facilities, the following conclusions wer recommendations made for the modifications to k AMPEX recorders proposed for issue to	re reached and	
	RECORDER:		25X1
	a. The AMPEX was selected for its high simplicity of operation, and rugged incorporation of basic features con for its contemplated use.	iness, as well as	
	b. The prototype recorder has been moderated to single speed operation (3 3/4") and should similarly be modified for similarly be modified for similarly be modified.	 Recorders issued 	
	c. It should be fused and the fuse sho accessible, mounted on the top con ble, where it can be replaced easily	trol panel, if possi-	

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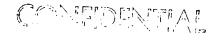
CONFIDENTIAL

- d. Recording heads should be of the plug-in type, again for the purpose of ready replacement.
- e. The three-prong microphone receptacle should be removed, if feasible, and replaced with a conventional telephone jack receptacle.
- f. A separate motor switch should be incorporated in the recorder so that it can be used for monitoring with the reel motor off.
- g. A relay switch should be added so that the recorder motor can be turned on by remote control. A six-volt relay with a Jones #301 receptacle on the panel is suggested.
- h. The addition of a footage indicator is recommended.

CASE AND MOUNTING:

- i. The recorder should be mounted in a conventional man's suitcase. A suitcase of "Samsonite" or a similar sturdy material, in a conservative color, is suggested. The suitcase should have a removable cover and it should not be the type in which the cover and bottom meet on a bias.
- j. The suitcase should be somewhat larger than the one in which the prototype is mounted. The recorder should be centrally mounted so that the suitcase is well balanced for carrying, with its longitudinal axis at right angles to the longitudinal axis of the suitcase, permitting use of the free space at the ends of the suitcase for storage of spare reels, tools, cable, etc.
- k. The recorder should be firmly mounted in the suitcase. The metal container and the elaborate padding of the prototype are not necessary. Mounting by means of four bars, one at the top and bottom of each of the two sides of the recorder, rigidly fastened to the sides and bottom of the suitcase, with the recorder mechanism protected by some type of an expanded metal grill at the sides, is suggested.







CONTINUAL

5. In addition, the following were recommended for issue	items of accessory equipment 25X1
ceptacle of the recorde	These units, 25X1 RAFT, plug into the input re- r and permit use of two micro- volumen controls for each
tured by the Ungar Compa ing unit with spare pyr	
	ohms per volt-D.C. scale) uter pliers (diagonals, needle- e pliers).
6. It is requested that your o	ffice take appropriate steps ncorporation of modifications 25X d of effecting the modifica- n. It may be determined that jor portion of the changes. hat the modifications may be
	25X1
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